Magnets and Magnetic Fields

Activity I: What are some of the properties of magnets?

Proced	lure:
1.	Obtain a strong magnet, a paper clip, and a small compass.
2.	Place one end of the magnet near the compass and move it around.
Descri	be what you observe?
3.	Place the other end of the magnet near the compass and move it around.
What	happens now?
4.	Place one end the paper clip near the compass and move it around.
What	happens to the compass needle?
5.	Rub the paper clip on the magnet several times then place one end the paper clip near the magnet.
What	happens to the compass needle?

nea	r the magnet.
What hap	pens to the compass needle time?
Which en	d of the paper clip is "North"? Which end is "South"?

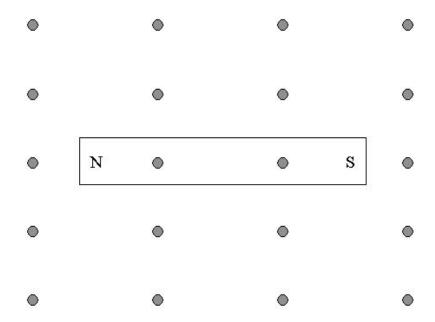
6. Rub the paper clip on the magnet several times then place the other end the paper clip

Activity II: What is a magnetic field?

Procedure:

- 1. Tape the magnet to a piece of paper.
- 2. Place the compass on the paper, at the locations shown.

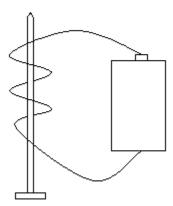
In which directions does the compass point?



Activity II: How do we make a magnet?

Procedure:

- 1. Obtain an iron rod (such as a nail), a battery and some wire.
- 2. Wrap the wire around the iron rod and connect to the battery as shown.
- 3. Place the compass next to the iron rod.



	What do you observe?				
	Which end of the iron rod is "North"?				
4.	Switch how the wire is connected to the battery.				
WI	Which end of the iron rod is now "North"?				